E920









HIGH PRECISION GEOMETRIC MEASUREMENT AND ALIGNMENT

This system can be used to carry out all the most common geometric measurements; straightness, flatness, squareness, plumb and level. Measurement is quick and precise. Displayed resolution is 0.001 mm [0.05 mils]. The system can provide full documentation, with direct generation of PDF reports, and database programs for PC. The



laser transmitter is our well known big seller, the D22 with levelling table, strong magnetic feet, and a range of up to 40 m. The transmitter's laser beam can be compared to an absolutely straight and weightless ruler, that is to say a perfect starting point for precision measurement.

STRAIGHTNESS MEASUREMENT

With our program for measuring straightness, you can easily measure long shafts, rolls, bearings, bases, machine structures etc. All you have to do is define a number of measuring points, in advance or while measuring. You will be able to get the result for both the horizontal and vertical alignment, graphically as well as digitally.

FLATNESS MEASUREMENT

Flatness can be measured on a rectangular or circular plane. The user can select a method according to the type of measurement required. Position the detector at selected measurement points and record the values. After measuring, set three of the measurement points as references (0), then the remaining points are recalculated to the new reference plane formed.

SQUARENESS MEASUREMENT

When measuring squareness, first record two measurement values on a single object to create a reference for the angle. Then use the built-in angular prism in laser transmitter D22, which deflects the laser beam 90°, and record two new measurement values on the second object.

ALL PROGRAMS ARE INCLUDED

Easy-Laser® E920 is a complete system in itself, with laser transmitter, detector and display unit. But it is also an excellent starting point for creating a measurement system that suits your specific needs and requirements, because all the measurement programs are included as standard! Add extra laser transmitters, measuring units and brackets as well as other accessories from the wide Easy-Laser® range. Now or in the future.



Straightness program. Measuring.



Flatness program. Measuring.



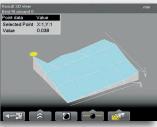
Squareness program. Measuring.



Spindle program. Result.



Straightness program. Result graph.



Flatness program. Result graph.



Squareness program. Result.



Shaft alignment program. Note! Accessories required.

GEOMETRIC MEASUREMENTS

For measurement of straightness, flatness, squareness etc.



Laser transmitter

A. The laser beam is angled at 90° to the sweep

EASY-LASER®

- B. The laser beam is used for a 360° sweep
- C. Leveling screws (x2)
- D. Magnetic feet (x3)
- E. Swivelling head

Detector

- F. Bluetooth® unit
- G. Rotatable head
- H. Magnet base
- I. PSD (2 axis)

www.easy-laser.com

TECHNICAL DATA

System

Relative humidity Weight (complete system) Carrying case

10-95% 12.3 kg [27.1 lbs] WxHxD: 550x450x210 mm [21.6x17.7x8.3"] Drop tested. Water and dust tight.

Laser transmitter D22

Type of laser Laser wavelength Laser Safety Class Output Beam diameter Working area, range Type of battery Operating time/battery **Operating temperature** Levelling range 3 x spirit vials' scaling Squareness between laser beams Flatness of sweep Fine turning 2 x spirit vials for rotation Housing material Dimensions Weight

Diode laser 635–670 nm, visible red light Class 2 < 1 mW 6 mm [1/4"] at aperture 40-metre radius [130] 1 x R14 (C) approx. 24 hours 0-50 °C ± 30 mm/m [± 1.7°] 0.02 mm/m 0.01 mm/m [2 arc sec.] 0.02 mm 0.1 mm/m [20 arc sec.] 5 mm/m Aluminium WxHxD: 139x169x139 mm [5.47x6.64x5.47"] 2650 g [5.8 lbs]

2 axis PSD 20x20 mm [0.78" sq] 0.001 mm [0.05 mils]

WxHxD: 60x60x42 mm [2.36x2.36x1.65"]

± 1% +1 digit

0.1° resolution

-10-50 °C

Li Po

± 1° C accuracy

IP Class 66 and 67

Anodized aluminium

186 g [6.6 oz]

Detector E7

Type of detector Resolution Measurement error Inclinometers Thermal sensors Environmental protection **Operating temperature** Internal battery Housing material Dimensions Weight

Display unit E51

Measuring programs Type of display/size **Displayed resolution** Power management Internal battery (stationary) Battery compartment **Operating time** Operating temperature Connections Wireless communication Storage memory Help functions **Environmental protection** Housing material Dimensions Weight (without batteries)

Complete set VGA 5.7" colour 0.001 mm / 0.05 thou Endurio[™] system for unbroken power supply Li Ion For 4 pcs R 14 (C) Appr. 30 hours (Normal operating cycle) -10-50 °C USB A, USB B, External, Easy-Laser® units, Network Class I Bluetooth® Wireless Technology >100.000 measurements Calculator, Unit converter, Instruction films IP Class 65 PC/ABS + TPE WxHxD: 250x175x63 [9.8x6.9x2.5"] 1030 g [2.3 lbs]

Wireless connection unit

Wireless communication **Operating temperature** Environmental protection Housing material Dimensions Weight

Class I Bluetooth® Wireless Technology -10-50 °C IP Class 66 and 67 ABS 53x32x24 mm [2.1x1.2x0.9"] 25 g [0.9 oz]

ISO9001

Cables	
Туре	With Push/Pull connectors
System cable	Length 2 m [78.7"]
Extension system cable	Length 5 m [196.8"]
USB cable	Length 1.8 m [70.8"]
Magnet base with turnable head (for detector)	
Holding power	800 N
Rods for detector	
Length	60 mm / 120 mm (extendable) [2.36"/4.72"]
EasyLink™ data base software for PC	
System requirements	Windows® XP, Vista, 7, 8. For the export functions, Excel 2003 or newer must be installed on the PC.
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Laser transmitter D22 1 Detector E7 1 Display unit E51 1 1 Bluetooth unit Cable 2 m 1 Cable 5 m (extension) Cable support 1 Machine spindle pin 1

A complete system contains

- 1 Safety strap for laser transmitter
- 2 Targets for rough alignment
- Magnet base with turnable head
- Offset bracket Set of rods (6x60 mm, 6x120 mm)
- Manual
- 1 Measuring tape 5 m 1
- USB memory stick (with EasyLink[™] program) 1
- USB cable 1
 - Battery charger (100-240 V AC)
- Toolbox
- Cleaning cloth for optics 1
- 1 Carrving case

System Easy-Laser® E920 Geometric, Part No. 12-0771

Easy-Laser® is manufactured by Damalini AB, Alfagatan 6, 431 49 Mölndal, Sweden, Phone +46 31 708 63 00, Fax +46 31 708 63 50, email: info@damalini.se, www.damalini.com @ 2014 Damalini AB. We reserve the right to make modifications without prior notification. Easy-Laser® is a registered trademark of Damalini AB. This product comples with: EN60825, 21 CFR 1040.10 and 1040.11 This device contains FCC ID: PVH0925, IC: 5325A-0925. Extend the warranty from 2 to 3 years by registering your system on the Internet.





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